

## AUSSEF Judging Criteria

Each student's project is judged on the criteria listed in column 2 of the table below and assigned a score (from 1-5) as shown in column 3 of the table.

Aspects*	Judging Criteria for <i>Engineering projects</i>	Score
1. Research problem	A research problem that:	
	1.1 describes a practical need or problem to be solved in light of prior attempts or solutions	1-5
	1.2 explored existing ideas and alternatives	1-5
	1.3 identifies the significance of a solution for society	1-5
2. Design and methodology	1.4 defines the criteria for a proposed solution	1-5
	A design process and methodology that:	
	2.1 exhibits a well-constructed plan to address the need or problem	1-5
	2.2 justifies the choice of materials and technologies selected	1-5
3. Execution: Construction and testing	2.3 describes a proposed prototype or model to demonstrate the solution	1-5
	2.4 demonstrates depth of understanding of technological methodology used	1-5
	Construction and testing of a prototype or model that:	
	3.1 exhibits good design and production skills	1-5
4. Creativity and or innovation	3.2 has been tested in multiple conditions and or trials	1-5
	3.3 uses an appropriate application of mathematical and scientific methods	1-5
	3.4 demonstrates engineering skill to develop a reliable and functional solution	1-5
	4. Significant creativity and or innovation shown in one or more of the aspects of the project <sup>#</sup>	1-5 (x4)
5. Conclusion and discussion	A conclusion and discussion that:	
	5.1 evaluates the potential impact of the prototype or model for engineering, applied science and/or for society	1-5
	5.2 demonstrates understanding, interpretation and limitations of the product/solution	1-5
	5.3 demonstrates depth of understanding in relevant concepts, structures and processes	1-5
6. Presentation and communication	5.4 suggests meaningful and relevant ideas for further research and development	1-5
	A communication process that:	
	6.1 addresses purpose and audience	1-5
	6.2 demonstrates logical organisation of material	1-5
	6.3 has clearly illustrated initial ideas and all design stages to the final design	1-5
	6.4 provides evidence of a high degree of independence of the student	1-5
<b>Total score</b>		<b>120</b>

\*Drawn from ISEF criteria sections; # The *Creativity and innovation* aspect is weighted to provide equal value with the other aspects of the criteria